



11) Publication number:

0 372 751 A3

(12)

## **EUROPEAN PATENT APPLICATION**

(21) Application number: 89312130.1

(51) Int. Cl.5: G06F 9/38

22 Date of filing: 22.11.89

(30) Priority: 09.12.88 GB 8828817

Date of publication of application:13.06.90 Bulletin 90/24

② Designated Contracting States:
DE FR GB IT NL

Date of deferred publication of the search report:25.09.91 Bulletin 91/39

71) Applicant: INTERNATIONAL COMPUTERS LIMITED ICL House

Putney, London, SW15 1SW(GB)

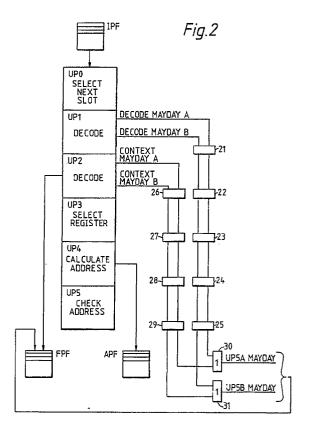
Inventor: Duxbury, Colin Martin 55 Poleacre Lane Woodley Sotckport SK6 1PH(GB) Inventor: Rose, Philip Vivian

45 Meade Hill Road

Higher Crumpsall Manchester M8 6LT(GB)

Representative: Guyatt, Derek Charles Patents and Licensing International Computers Limited et al Six Hills House London Road Stevenage, Herts, SG1 1YB(GB)

- 54 Pipelined data-processing apparatus.
- © A pipelined data processing system comprises a series of pipeline stages through which instructions pass sequentially. If an error associated with a particular instruction (e.g. an illegal instruction) is detected, a Mayday signal is produced. This does not become active immediately. Instead it is passed down the pipeline along with the instruction that caused it, and becomes active only if that instruction attempts to terminate at the end of the pipeline. When the Mayday becomes active, it causes an interrupt to a diagnostic processor. If, on the other hand, the instruction that caused the Mayday is aborted, or does not attempt to terminate, then the Mayday is discarded and does not become active. This prevents unnecessary diagnostic actions.





## EUROPEAN SEARCH REPORT

EP 89 31 2130

DOCUMENTS CONSIDERED TO BE RELEVANT						
ategory		th indication, where appropriate, vant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CI.5)	
Х	IBM TECHNICAL DISCLOS 11A, April 1982, page 5530, "Pipeline processor excepti * Whole article *	New York, US; S.P. DALE	1	-2,6	G 06 F 9/38	
X	IBM TECHNICAL DISCLOS May 1983, pages 6711-671; al.: "Storage access except ecution units" * Whole article *	2, New York, US; L.C. GAR	CIA et	-2,6,8		
					TECHNICAL FIELDS SEARCHED (Int. CI.5)	
					G 06 F 9/38	
	The present search report has b	peen drawn up for all claims				
	Place of search	Date of completion of sea	ırch		Examiner	
	The Hague 10 July 91			QUESSON C.J.		
CATEGORY OF CITED DOCUMENTS  X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same catagory A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention			E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons  where the same patent family, corresponding document			